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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,835	09/25/2003	Daniel Alan Brokenshire	AUS920030705US1	8261
	7590 04/04/200 ATION- AUSTIN (JV	EXAMINER		
C/O VAN LEEUWEN & VAN LEEUWEN			VO, LILIAN	
PO BOX 90609 AUSTIN, TX 7			ART UNIT	PAPER NUMBER
			2195	
			MAIL DATE	DELIVERY MODE
			04/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/670,835	BROKENSHIRE ET AL.	
Office Action Summary	Examiner	Art Unit	
	LILIAN VO	2195	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be iod will apply and will expire SIX (6) MONTHS fit tute, cause the application to become ABANDO	ON. The timely filed The timely filed The mailing date of this communication. The mailing date of this communication. The mailing date of this communication.	
Status			
<ul> <li>1) Responsive to communication(s) filed on 13</li> <li>2a) This action is FINAL. 2b) T</li> <li>3) Since this application is in condition for allow closed in accordance with the practice under</li> </ul>	his action is non-final. wance except for formal matters,		
Disposition of Claims			
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Exam	drawn from consideration.		
10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	he drawing(s) be held in abeyance. section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a light	ents have been received. ents have been received in Applic riority documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 11/11/05, 5/16/06, 8/15/06, 9/19/06, 1	· —		



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### **DETAILED ACTION**

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1. Claim 1 is presented for examination. Claims 2 – 47 have been cancelled.

### Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 1 recites the limitation "the request" in line 12. There is insufficient antecedent basis for this limitation in the claim.

## **Double Patenting**

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned

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with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claim 1 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/670,838.

Although the conflicting claims are not identical, they are not patentably distinct from each other because application 10/670,838 also teaches a method for using a processor as a virtual device which comprises all steps as being claimed in the present application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bono (US Pat. Application Publication 2003/0018691) in view of Wenkata Subramanian et al. (US Pat. Application Publication 2006/0047754, hereinafter Wenkata).

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9. Regarding claim 1, Bono discloses a computer-implemented method for using a processor as virtual device, said method comprising:

loading data to a first location in a common memory in a computer system (fig. 1 and 7), loading software code that processes the data in a second location in the common memory (page 2 paragraph 12: queue loader routine,

fig. 1 and 7: 156);

writing an instruction block to a third location in the common memory, wherein the instruction block includes the first and second locations (page 2 paragraph 12: queue service routine, fig. 7);

a second processor from a plurality processors in the computer system, wherein the plurality of processors share the common memory(fig. 1), wherein each of the processors have a local memory (fig. 1), and wherein at least two of the processors are dislike (page 2 paragraph 29: processors may perform substantially different functions);

storing data corresponding to the request in the local memory corresponding to the second processor (page 5 paragraph 87); and

reading by the second processor the second location from the instruction block (page 2 paragraph 12: queue service routine is executed by each processor for servicing its hard and soft affinity queues);

copying, by the second processor, the data from the first location in the common memory to the second processor's local memory (page 2 paragraph 12: queue service routine is executed by each processor for servicing its hard and soft affinity queues);

copying, by the second processor, the software code from the second location in the common memory to the second processor's local memory (page 2 paragraph 12: queue service routine is executed by each processor for servicing its hard and soft affinity queues); and

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processing the data by the second processor using the software code stored in the second processor's local memory (page 2 paragraph 12: queue service routine which dispatch code thread instances to the processors for execution).

Bono discloses that shared memory is used for exchanging messages or sharing data among the processors (page 3 paragraph 33) but did not specifically disclose a processor is processing data in response to the signal from another processor. Nevertheless, Wenkata discloses the communication between the two processors in which one processor is received and responded to another processor signal for data processing (page 1 paragraph 3). It would have been obvious for one of an ordinary skill in the art at the time the invention was made to incorporate Wenkata's teaching together with Bona as it would provide a necessary communication between the processors in the system as desired.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LILIAN VO whose telephone number is (571)272-3774. The examiner can normally be reached on Thursday 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lewis A. Bullock, Jr./
Supervisory Patent Examiner, Art Unit 2193

Lilian Vo Examiner Art Unit 2195

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March 27, 2008